

UDOT Minimum Sampling and Testing Requirements

Revised January '07

Specification - Material: 02752 Portland Cement Concrete Pavement

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Quality Assurance: Sieve Analysis

Reference: AASHTO T 27 / T 11

Lot Size: Paving Day

Frequency per Lot: One per stockpile

Point of Acceptance: Project Stockpile

Sampling Reference: AASHTO T 2

Report/Form:

Quality Assurance: Slump, Air Content, and Concrete Temperature

Reference: AASHTO T 119, AASHTO T 152, AASHTO T 309

Lot Size: Paving Day

Frequency per Lot: At beginning of placement, after shutdowns of 1 hour or more, and after each failed batch, test until three consecutive batches meet specification. Randomly thereafter for each 800 cubic yards minimum.

Point of Acceptance: Plant site (Platform) for centrally mixed concrete with non-agitating haul units. Grade for agitating haul units. If first determination fails, immediately retest. If the second test meets specification, immediately retest. Batch is rejected on two failed determinations.

Sampling Reference: WAQTC TM 2

Report/Form:

Quality Assurance: Air Content Correlation testing to determine loss of entrained air from the platform to the finished in-place pavement.

Reference: AASHTO T 152

Lot Size: Paving Day

Frequency per Lot: Two tests, one in the morning and one in the afternoon for each day of paving operations. Perform air test at the platform and again from the same load in the finished pavement.

Point of Acceptance: Plant site (Platform) and finished pavement.

Sampling Reference: WAQTC TM 2

Report/Form:

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Quality Assurance: Density-Yield

Reference: AASHTO T 141

Lot Size: Paving Day

Frequency per Lot: One determination per day in conjunction with an air test.

Point of Acceptance: Plant site (Platform) for centrally mixed concrete with non-agitating haul units. Grade for agitating haul units.

Sampling Reference: WAQTC TM 2

Report/Form:

Quality Assurance: Compressive Strength Test - For concrete centrally mixed with non-agitating haul units.

Reference: Cast in accordance with AASHTO T 23. Tested in accordance with AASHTO T 22. One compressive strength test consists of a set of three cylinders.

Lot Size: Paving Day

Frequency per Lot: One strength test represents 3000 Square yards. Hand-placed areas are considered separately.

Point of Acceptance: Plant site (Platform)

Sampling Reference: WAQTC TM 2

Report/Form:

Quality Assurance: Compressive Strength Test - For concrete centrally mixed with agitating haul units or transit mixed at placement location.

Reference: Cast in accordance with AASHTO T 23. Tested in accordance with AASHTO T 22. One compressive strength test consists of a set of three cylinders

Lot Size: Paving Day

Frequency per Lot: One strength test represents 725 square yards or one days placement whichever is smaller

Point of Acceptance: Grade

Sampling Reference: WAQTC TM 2

Report/Form:

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Quality Assurance: Thickness

Reference: Thickness, determined by three measurements on each core, recorded to 1/16 in and averaged.

Lot Size: Paving Day

Frequency per Lot: One core per 12,000 square feet. Final areas less than 6000 square feet will be added to the previous section. Final section over 6000 square ft. will constitute a separate area. Hand placements are considered separately. One core per placement area.

Point of Acceptance: Finished pavement

Sampling Reference: Randomly sampled according to AASHTO T 24

Report/Form:

Quality Assurance: Thickness - For placements over existing surfaces

Reference: Graph of the deviations from the profile grade established by the plans or Engineer. Meet requirements listed in 02752

Lot Size: Paving Day

Frequency per Lot: Engineer takes elevations at 100 foot intervals and compares against the profile and graph.

Point of Acceptance: Finished pavement

Sampling Reference:

Report/Form:

Quality Assurance: Smoothness

Reference: Standard Specification 01452

Lot Size:

Frequency per Lot:

Point of Acceptance:

Sampling Reference:

Report/Form:
